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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/709,306	04/28/2004	Han-Chung Lai	12952-US-PA	3305	
31561 75	590 01/18/2006		EXAMINER		
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2			CHIEN, LUCY P		
			ART UNIT	PAPER NUMBER	
	•		2871		
TAIWAN				DATE MAILED: 01/18/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
Office Action Summary		10/709,306	LAI, HAN-CHUNG	(and				
		Examiner	Art Unit	-				
		Lucy P. Chien	2871					
	- The MAILING DATE of this communication app			ess				
Period fo	r Reply		·					
WHIC - Exten after 3 - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DASIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timularly and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. tely filed the mailing date of this comm O (35 U.S.C. § 133).					
Status								
2a)☐ 3)☐	Responsive to communication(s) filed on 2a) ☐ This action is FINAL.							
Dispositi	on of Claims							
5) □ 6) ⊠ 7) □ 8) □ Application	Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-16 is/are rejected. Claim(s) is/are objected to. Claim(s) is/are objected to. Claim(s) is/are subject to restriction and/o on Papers The specification is objected to by the Examine The drawing(s) filed on 28 April 2004 is/are: a) Applicant may not request that any objection to the	vn from consideration. r election requirement. r. ⊠ accepted or b) □ objected to l drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).	1 121 <i>(</i> d)				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
,—	nder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:	ate	52)				

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claim 1-16 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1,2,6,8,12,13 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admission and of Song et al (US 6215541) in view of Baek et al (US 6524876).

Regarding Claim 1,6,

The admission (Figure 1) discloses a scan line (110) disposed over a substrate 10), a redundant scan line (120) disposed over the scan line (110), a dielectric layer (130), disposed between the scan line (110) and the redundant scan line (120), wherein contact holes (132) are formed in the dielectric layer (130) wherein the scan line (110) is electrically connected with the redundant scan line (120) through at least one or more first contact holes that expose a portion of the scan line, a data line (40) disposed over the substrate (10) an active component (160) disposed adjacent to an intersection of the scan line (110) and the data line (140) and a pixel electrode (170) electrically connected to the active component (160) wherein the active component is controlled by the scan

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line (110) to write an image signal transmitted by the data line (140) to the pixel electrode (170).

Admission does not disclose more than three first contact holes.

Song et al disclose (Figure 5) three contact holes connecting data line and redundant data line. Song et al does not disclose three contact holes connecting the scan line and redundant scan line. But it would have been obvious to have three contact holes connecting the scan line and redundant scan line to achieve the same objective as having three contact holes connecting data line and redundant data line to provide reliable connection between the lines.

Baek et al discloses (Fig. 19) four contact holes.

It would have been obvious to one of ordinary skill in the art, at the time when the invention was made to modify the admission's pixel structure and Song et al's three contact holes to include Baek et al's four contact holes motivated by the desire to increase the reliability of the contacts between pads and drivers. (Song et al, Column 1, Row 47-48)

Regarding Claim 2,8,12,

The admission discloses (Figure 1) a data line (40) disposed over the substrate (10), and a redundant data line, disposed under the data line, wherein the dielectric layer is disposed between the data line and the redundant data line, and the dielectric layer has contact holes wherein the data line is electrically connected with the redundant data line through at least one or more second contact holes that expose a portion of the redundant data line.

The admission does not disclose using more than three contact holes.

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Song et al disclose (Figure 5) three contact holes (74, and the other contact holes next to 74) located to connect the scan line (24) and redundant scan line (84).

Baek et al discloses (Fig. 19) four contact holes.

It would have been obvious to one of ordinary skill in the art, at the time when the invention was made to modify the admission's pixel structure and Song et al's three contact holes to include Baek et al's four contact holes motivated by the desire to increase the reliability of the contacts between pads and drivers. (Song et al, Column 1, Row 47-48)

Regarding Claim 13,

In addition to the admission, Song et al, and Baek et al as disclosed above, the admission further discloses (Figure 1) the active component (160) comprising a thin film transistor.

Claim 3-5,7,9-11,14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admission and of Song et al (US 6215541) in view of Baek et al (US 6524876) in view of Kano et al (US 20040017528).

Regarding Claim 3,9,14,

The Admission, Song et al, and Baek et al do not disclose the contact hole having a size in a range of about 20 mu.m.

Kano et al discloses (Page 7 [0120-121]) the size of the contact hole is about 20 mu.m to provide an active matrix display device having asymmetrical reflection properties (Page 1, [0014]).

It would have been obvious to one of ordinary skill in the art, at the time when the invention was made to modify the admission, Song et al, and Baek et al to include

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Kano et al's contact hole size motivated by the desire to provide an active matrix display device having asymmetrical reflection properties (Kano et al, Page 1, [0014]).

Regarding Claim 4,7,10,15,

In addition to the admission, Song et al, Baek et al and Kano et al as disclosed above, Kano et al further discloses (Page 7 [0120-121]) the contact hole comprises a square (rectangle) hole.

Regarding Claim 5,11,16,

In addition to the admission, Song et al, Baek et al and Kano et al as disclosed above, the admission further discloses (Figure 1, 160) the active component comprises a thin film transistor.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lucy P. Chien whose telephone number is 571-272-8579. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571)272-2293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lucy Chien Examiner Art Unit 2871 LC

> Andrew SCHECHTER PRIMARY EXAMINER

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